

The Cathedral of Commerce



Woolworth
Building
New York

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SEYMOUR DURST



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BALTIMORE AND NEW YORK





GRAND ARCADE
OF THE
CATHEDRAL
OF
COMMERCE

The Cathedral of Commerce



mcmlxx



THE
OBSERVATION
GALLERY
A
TELE-PHOTO
VIEW

FOREWORD

S. PARKES CADMAN, D.D., S.T.D., L.H.D.

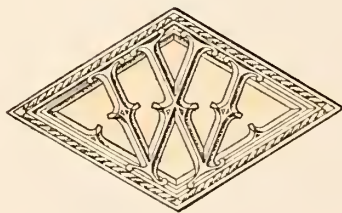


THE man who proposes and the architect who designs a truly great building confer a lasting favor on the race at large. Our indebtedness to those who constructed the Parthenon, the Coliseum at Rome, St. Peter's Cathedral in that city, St. Paul's in London, St. Mark's in Venice and the pure Gothic of St. Chapelle and Notre Dame in Paris is utterly beyond ordinary methods of computation. These monuments of rare beauty, devotion and civic pride far outlast other achievements of their respective periods. Their true value is not in stone nor in gold but in the spiritual aspirations which they embodied and expressed. Brute material has been robbed of its density and flung into the sky to challenge its loveliness.


Just as religion monopolized art and architecture during the Medieval epoch, so commerce has engrossed the United States since 1865. The close of the Civil War released the pent-up powers of a young nation, occupying a virgin soil, with the consequences we now witness. Multitudes flocked to our shores, trade increased by leaps and bounds, railways linked East and West in a continental expanse, cities thrived apace. Out of the struggles of this process, not without its pulsive and sordid features, have been developed gratifying benefits. The prairies of Illinois, Indiana, Iowa and the Dakotas have become the granaries of the earth. The mineral treasures of Pennsylvania, Georgia and the States located among the foothills of the Rocky Mountains have been mined and placed at the disposal of nations. These and many other enrichments of human life and intercourse received their visible tokens in the steady advancement of general prosperity and welfare. Their metropolitan and financial centers were found in New York. Here, on the Island of Manhattan, and at its southerly extremity, stands a succession of buildings without precedent or peer. The vision of their grandiose effect from the Brooklyn Bridge at dusk, when the gathering darkness softens their bold outlines, and every one of the numberless windows coruscates with radiance, is beyond the brush of Turner to paint or the eloquence of Ruskin to describe. It outvies imagination in its most fertile moments. Of these buildings the Woolworth is Queen,

acknowledged as premier by all lovers of the city and the commonwealth, by critics from near and far, by those who aspire toward perfection, and by those who use visible things to attain it. When seen at nightfall bathed in electric light as with a garment, or in the lucid air of a summer morning, piercing space like a battlement of the paradise of God which St. John beheld, it inspires feelings too deep even for tears. The writer looked upon it and at once cried out, "The Cathedral of Commerce"—the chosen habitation of that spirit in man which, through means of change and barter, binds alien people into unity and peace, and reduces the hazards of war and bloodshed. Such is its testimony due to Frank W. Woolworth, whose magnitude of mind originated the scheme, and to Cass Gilbert, whose genius executed it to the last detail. To these men, America pays a lasting tribute, and their accomplishment will remain at the heart of the world of trade, a lofty example of the best possibilities in human nature, even when engaged in mercantile pursuits.

Stansford Edmund



THE CATHEDRAL OF COMMERCE

N the night of April 24, 1913, President Wilson pressed a tiny button in the White House and 80,000 brilliant lights instantly flashed throughout the Woolworth Building. The event marked the completion, the dedication and the formal opening of that regal edifice, the tallest and most beautiful building in all the world erected to commerce, so judged by the officials of the Panama-Pacific Exposition when they placed their seal of approval upon it and awarded it a gold medal. It was a memorable night. A profusion of light filled the twenty-seventh floor, which had been arranged for a superb banquet. And assembled there was a great host of statesmen, captains of industry, merchants, journalists, scholars, poets—all representative Americans, proud to break bread with, and honor the man who had realized his dream, and the gallant aides who tirelessly had labored with him to accomplish the stupendous task, the upbuilding of a monument to small things.

Yes, as a commercial institution the Woolworth Building is preeminent. Within its walls are

housed great banking institutions, the executive and clerical staffs of giant industries, the New York representatives of America's big business enterprises and a great many leaders in the professions. Its tenants, with their employees, number upwards of 14,000 people—the population of a city—and only tenants of the highest standard are accepted. The Building could have been filled twice over had not Mr. Woolworth been so strict about the responsibility and personal integrity of every lessee. Altogether, these tenants rank among our country's most prosperous, progressive and most reputable business and professional men.

Doctor Cadman, the noted divine, has called this Building "The Cathedral of Commerce." This term fittingly describes it. It stands in magnificent splendor, a masterpiece of art and architecture, a Glorious Whole, quite beyond the control of human imagination. The true Gothic lines and tracery of the exterior are extremely impressive, and the proportions have been executed with such studious care and fidelity to detail that its enormous height is not realized from the



LOWER MANHATTAN BY NIGHT
FROM THE OBSERVATION GALLERY OF THE WOOLWORTH BUILDING

street; yet it is by far the tallest building in the world, rising 792 feet above the sidewalk, its summit piercing the heavens. The recessive Tower, gradually diminishing from base to pinnacle and appearing always in new lights and colors, forms a fascinating picture from every viewpoint, as it stands silhouetted against the sky.

Its location, too, is of supreme importance. It is in the very heart of things—the civic center of the world's great metropolis, in the midst of all transportation lines. It faces upon three streets and has nine entrances, including two direct communications with the subway transportation system.

It is within a stone's throw of City Hall, the Municipal Building, Brooklyn Bridge, the Post Office and all Courts, also close by the great financial and banking center. No building could command a better location or one more advantageous to its tenants.

From the Observation Gallery, fifty-eight stories above the street, the view is marvelous, and the thrilling sensation which comes over the sightseer is never to be forgotten. It is indeed the most remarkable if not the most wondrous view in all the world. The scenic and color effects, with the sun shining on the multi-colored buildings around it, but far



THREE TOWERS OF LOWER MANHATTAN AT NIGHT

below, and on the water and land for twenty-five miles in every direction, make a landscape impossible of adequate description. The vast area spread out before the visitor's eye is inhabited by more than 9,500,000 souls. To the north lies the great City, with the Hudson River and the lordly Highlands beyond. To the east, Long Island and the mighty Atlantic Ocean, with its ships passing to and fro far distant on the horizon where sky and water seem to meet. To the south, the great Harbor of New York, the Narrows through which pass all ships entering and leaving this Port, Governor's Island, the Statue of Liberty, and Staten

Island in the distance. To the west again is seen the Hudson River and the great expanse of meadow-land and mountainous country embracing Eastern New Jersey. Looking downward, the multitudes of people scurrying about the busy streets in close proximity to the Woolworth Building resemble an aggregation of pygmies—a crowd seen through the large end of a telescope. The view is bewildering. Every year upwards of 300,000 visitors from all parts of the world come here and the Guests' Register shows that these good people represent more than sixty different countries and thousands of cities.

The wonders of the Woolworth Building have not been confined to its exterior, for within will be found a wealth of things intensely interesting.

First among these should be mentioned the grand arcade, its tall, perfect lines rising and sweeping into graceful curves and arches. The marble, with its warm, golden, evenly matched colors of varied hues forming the arcade walls, was quarried on the Isle of Skyros off the coast of

Greece, from the choicest marble obtainable there. It is richly carved in pure Gothic design, blending with the magnificently decorated dome-ceiling, which is a masterpiece of glass mosaic. Its rare beauty is accentuated by the soft glow of artificial light concealed behind the lacelike marble cornice at the springing of the arches. It suggests a flood of dazzling jewels glittering in the sunlight—emeralds, rubies, sapphires, diamonds—a riot of harmonious colors, all spread out in golden settings, and arranged in exquisite designs. The whole effect is one of grandeur with which the arcade of no other building in the world may be compared. It is, indeed, an appropriate entrance to this regal structure, "The Cathedral of Commerce."

In the sub-basement is located the power plant which generates

electricity to operate the elevators and furnish light and ventilation for the entire Building.

This plant is complete in its make-up. Its four mighty engines and dynamos, operating day and night—never idle—are wondrous pieces of machinery, and considered the most efficient known to engineering science. The plant has a total capacity of 1,500 kilowatts, and consists of two 500 kilowatt units, one 300 kilowatt unit, and one

200 kilowatt unit. These units are of varying size, so as to afford maximum operating efficiency, according to the varying electrical load at different hours of the day. The engines are of tandem-compound low-speed Corliss type moving at one hundred revolutions per minute, and are capable of generating sufficient power to operate an electric street railway or supply electric light for a city of 50,000 inhabitants. The Engine Room itself is especially attractive with walls and floor of white tile and ceiling of white enamel, always spotless clean. Here, too, will be found an elaborate ventilating plant, designed to furnish a complete change of air in the three stories underground and the first four above four times in every hour. The air is drawn down from outside the Building above the sixth floor, passed through fine sieves



and then through a curtain of constantly running filtered water, where it is cleansed and distributed to tenants free of impurity. In summer months, this air is cooled by refrigeration, and in winter it is warmed by passing through heated pipes. A water filtration plant and refrigerating plant also form part of the vast mechanical equipment required for the exacting needs of the Building's tenants.

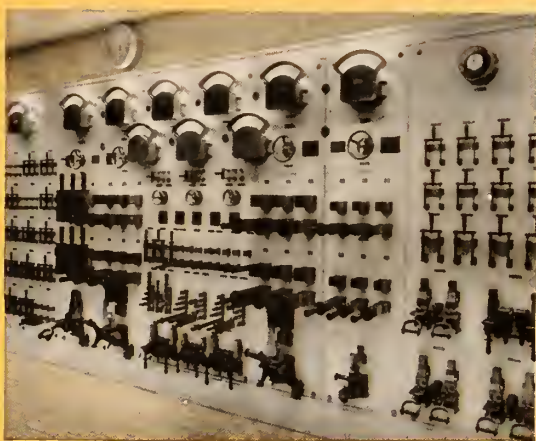
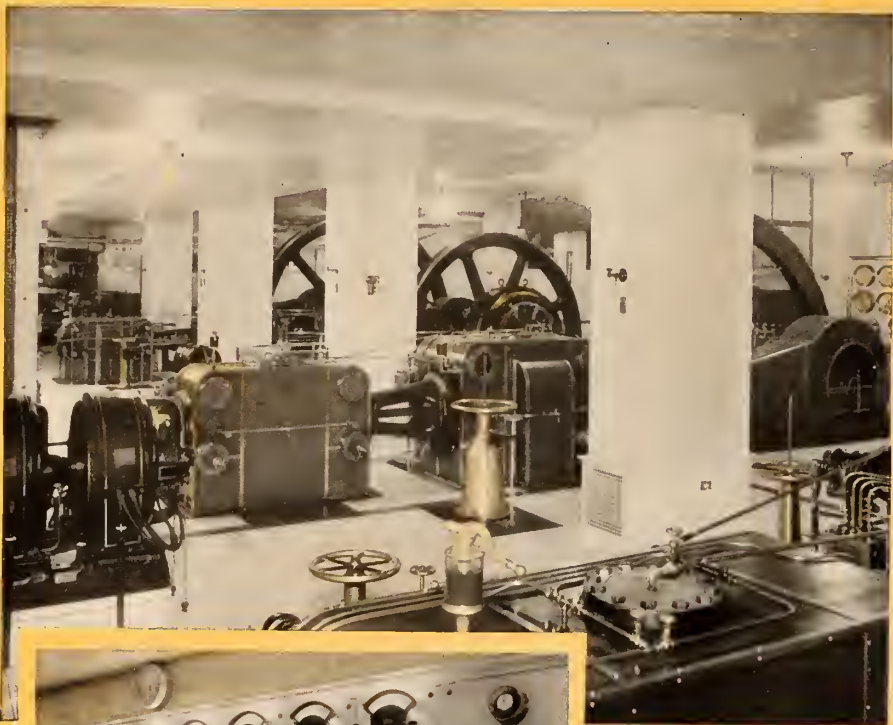
The Boiler Room houses six giant boilers having a total capacity of 2,500 horse-power. These boilers are operated at high pressure and except during a few weeks of unusually cold weather in mid-

winter the entire building is heated by exhaust steam from the engines and pumps. Some idea may be formed of the coal consumed by these boilers from the fact that the Building's coal bunkers contain over 2,000 tons of coal, which is replaced as used by cargo shipments direct from the anthracite fields of Pennsylvania. An immense Swimming Pool and Turkish Bath, open day and night, are also located in the sub-basement, where will be found every modern device making for comfort, safety and sanitation.

The fortress-like vaults of the Irving Safe Deposit Company



VIEW FROM THE SOUTHWEST



GENERATORS AND MAIN
SWITCHBOARD IN
THE ENGINE ROOM

are a feature of the basement, the first business floor. Upwards of five thousand boxes, many of them extra size, provide safe-keeping for the important documents, securities and valuables of almost as many business and individual customers. Another interesting place in the basement is the Restaurant—a show-place noted for its good food and fine service. There is also a finely appointed Barber Shop in the basement.

The Irving National Bank, whose resources of more than \$300,000,000 give it rank among the great institutions of New York, occupies the banking floor, as well as the third, fourth and fifth office floors of the building. The grand staircase facing the Broadway entrance leads directly to the Irving's main offices, where the problem of maintaining friendly personal relations with many thousands of depositors has

been solved in a most interesting way. Instead of the usual separate groups of paying and receiving windows, every teller both pays and receives—a system which both economizes the time of customers and makes for their better acquaintance with tellers. All Irving departments, indeed, are designed and arranged with the idea of facilitating contact between customers and officers and making the latter as easy of access as in any village or neighborhood bank.

Perhaps the most difficult problem in a structure as tall as the Woolworth Building is the elevator service, and the Building's success depends very largely upon the adequacy, safety and regularity of this service. The architectural design of the Building, together with the peculiarities of its structural steelwork, to a great extent, govern the number, arrangement and grouping

of the elevators. This vital feature has been carefully worked out, with the result that twenty-nine high-speed electric traction elevators provide excellent service throughout twenty-four hours of each day, every day in the year, Sundays and holidays included. These elevators travel on a headway of twenty-five to thirty-five seconds during business hours, which means that a car is available to carry passengers up or down from any floor about every half-minute, and this service is faithfully maintained. In order to get tenants, their employees and clients to and from the offices with the least possible delay, many of the elevators are operated at a speed greater than that maintained in any other building, yet they travel so smoothly and noiselessly that their movements are scarcely observed. The two elevators, which operate from the ground to the fifty-fourth floor, rise 700 feet in one



ONE OF THE WORKSHOPS

B
Y
D
A
Y

*The loftiest
and most
beautiful
building in
all the world
dedicated to
commerce—
seen through
the great
arch of the
Municipal
Building in
the soft glow
of early
morning
sunlight.*



B
Y
N
I
G
H
T



*At dusk, its
gigantic
Tower,
bathed in
electric light
of many gor-
geous hues,
rises high
into the
heavens like
a shaft of
fire herald-
ing the ap-
proach of
night.*



LOOKING NORTH FROM THE OBSERVATION GALLERY

minute, and these are the highest-rise and fastest-traveling elevators in the world. Although elevator service is provided in the Eiffel Tower, Paris, to a height of nearly 1,000 feet, three lifts must be used to reach the top, the highest rise of a single lift being about 450 feet.

On account of the complex elevator problem and the high speed at which service is maintained, together with the fact that nearly 35,000 people daily travel upon these elevators (more than 11,000,000 a year), particular attention is given to the matter of safety devices. The more important of these are the under-car safety operated by an over-

head governor; oil buffers placed under each car; retarding and latching device at the top of each shaftway; limit switches at the top and bottom of travel; speed governor and potential switches operated by governor; switch attached to safety plank on the under-car safety; emergency wheel and safety switch inside the car itself. Besides these, the gearless traction elevator has the great inherent safety feature because, if either the car or counterweight over-travels, the tractive force is lost, owing to the weight of the car or counterweight being removed from the hoisting cables. There are also many electrical safety devices which form a part of the controlling equipment



LOOKING SOUTH FROM THE OBSERVATION GALLERY

safeguarding the operation of these elevators.

Two additional features of great importance among the safety devices are the emergency exit doors and the interlocking device on the shaftway doors. The emergency exit doors are so constructed that, in the event of an elevator being accidentally held between floors, passengers may be transferred to an adjoining elevator and carried safely to their destination without delay or confusion. The interlocking device on the shaftway doors effectively overcomes one of the common causes of elevator accidents, namely, those which occur as passengers enter or alight

from elevators. These accidents may usually be charged to the carelessness of the operator in opening the shaftway door before the elevator reaches a full stop or starting the elevator before the door is fully closed. In this Building, elevators cannot be so operated because the interlocking device absolutely prevents an elevator from moving until the shaftway doors are fully closed.

Besides the regular safety devices enumerated above, Mr. Woolworth ordered air cushions for all elevators. These consist of a heavy steel structure enclosing each elevator shaft separately with reinforced concrete placed



LOOKING WEST FROM THE OBSERVATION GALLERY

between I beams. In addition, the interior of the shafts is lined with heavy steel plates, and as a car enters the air-cushion zone and approaches the bottom of travel the air pressure beneath increases. Therefore, if all safety devices failed to operate and the car dropped, the air would be so rapidly compressed that it would not have time to escape through the automatic valves or through the clearance space around the elevator; hence, the speed of the latter would be retarded and it would be brought gradually to rest at the base of its shaft without injury or shock to passengers within. To determine the utility of the air cushions, a test was made by loading an elevator with 7,000 pounds of material and dropping

it from the forty-fifth floor with all safety devices and cables removed. When this elevator reached bottom, its load was unharmed; the vibration being so slight that even a glass of water, which it carried, remained intact.

Many daily inspections are made by the Building's maintenance force, not only of this apparatus but of everything else affecting the safety, comfort and welfare of tenants and the general public. To show the extreme caution of these inspectors, a remarkable test was made in the plant of John A. Roebling's Sons Co. with a set of six hoisting cables condemned and taken from an elevator after three years of active service. The one most worn of these cables was placed



LOOKING EAST FROM THE OBSERVATION GALLERY

upon a powerful testing machine to determine the weight it would sustain before pulling apart. It broke only after assuming a burden of 16,600 pounds; hence the total carrying strength of the six condemned cables was at least 99,600 pounds. As the maximum weight of an elevator and its passengers is about 6,000 pounds, it will be seen that these cables were, by actual test, still strong enough to safely handle sixteen times the maximum weight of a loaded elevator.

“Safety first” and always is the watchword in the operation of this vertical railway system. While the cars travel at great speed, the maintenance is so closely watched and cared for that they move along almost un-

noticed—no quivering, no vibration, no sound whatever, absolute smoothness and safety.

Because of the arrangement of the elevators, the severe service to which they are subjected, and the variations in the height of travel, it was necessary to provide special means of controlling the operators and the movement of the elevators themselves. A Dispatcher System was therefore devised and used in this Building for the first time. This system consists of a dispatch board and a signal board with electric flashlights indicating the movement and location of every elevator. The dispatcher absolutely controls the elevators and is prepared, by means of telephonic communication, to pass instruc-



GRAND ARCADE FROM MAIN STAIRWAY LOOKING
TOWARD BROADWAY

tions to the operators when necessary, regardless of whether the elevators are in motion or at rest, so as to correct immediately any irregularities in the service.

Although the Building is fire-proof throughout, in so far as engineering masters have been able to make it, and the possibility of fire occurring within its walls is extremely remote, nevertheless, every mechanical device has been provided to safeguard the lives and property of tenants should the "impossible" occur. A fire could not spread beyond the office in which it broke out because the walls are of stone or steel, the doors, trim, etc., also of steel, and the glass of heavy plate, wired. In fact, no inflammable material of any description was used in the construction of this Building. Every stairway is an enclosed fire-tower, and every elevator shaft is free from outside influences such as smoke, fire, heat and gases.

A gigantic fire-pump forms part of the Building's thoroughly complete fire-fighting equipment. This pump, located in the sub-basement, is capable of delivering 500 gallons of water per minute at the fifty-eighth story against a head pressure of 820 feet, and, on account of the protection which it affords neighboring property, owners have, in many cases, been able to secure reductions in their fire insurance premiums.

In most buildings the inside or court offices are usually quite dark and undesirable on account of the narrowness of the openings and the height and dingy character of their walls. Not so in the Woolworth Building. It has a great, wide court—nearly the width of an average city street, and, as the walls are of glazed white tile, much natural light is reflected into the court offices, making them practically as choice as those facing upon the streets. All offices in the Building, without exception, are especially wide, light, and well ventilated, and their appointments are of the very best.

For the convenience of tenants, a completely equipped Hospital Room has been established for female stenographers, clerks, and others, where they may receive first-aid treatment at the hands of a competent nurse or rest quietly from the mental or physical strain attendant upon the day's work. Quick relief is thus afforded and sometimes serious illness prevented. Should any case be so serious as to require the attendance of a physician, one may be had within a few minutes. This room is maintained as part of the Building's general service for which no charge is made.

The public corridors throughout are spacious and well lighted and ventilated. Their floors are of polished marble terrazo and they have wainscot of selected



NORTH BALCONY OF THE GRAND ARCADE



BOILER ROOM

Italian marble carried half-way up to the ceiling. Directories on every floor below the Tower enable one to locate his destination quickly upon alighting from the elevators. The toilet facilities are unique as regards the number of rooms assigned for that purpose and the elegance of their appointments. A toilet room for ladies and one for gentlemen will be found conveniently located on practically every floor of the Building. The walls of these rooms are lined with white carrara glass, the costliest, most sanitary, and most attractive wall decoration known for this purpose. The ceilings are of white enamel, and the floors of white flint tile. The fixtures, too, are the last word in modern design and construction,

and, as a whole, these rooms are all that the word "sanitary" implies.

More than 150,000 pieces of mail are delivered to tenants of the Woolworth Building every business day, and a dozen letter-carriers are required for this service. The tenants' outgoing mail matter is fully as voluminous and requires an additional force of handlers to convey it to the General Post Office. Four huge letterboxes are placed in the main corridor, from which twenty-seven collections are made every twenty-four hours on week days. For the convenience of tenants, four mail chutes, connected with the mail boxes mentioned, serve every floor of the Building.



THE EMPIRE ROOM—EXECUTIVE OFFICE OF THE PRESIDENT OF
F. W. WOOLWORTH COMPANY

Twenty-eight hundred telephones are in service throughout the Building, a greater number than is used in a city of 45,000 inhabitants. The average daily traffic is 38,000 calls, totaling 11,400,000 messages per year.

Frequently visitors to the Observation Gallery and others ask interesting questions with regard to the means which have been devised to make a building of this height entirely safe in the face of the elements. As a matter of general information it may be said that, regardless of its supreme height, the structure is quite as safe as the Rock of Gibraltar, and the following facts

will probably be of interest to those who read them: The foundations for all columns are carried down to solid bed rock by means of concrete piers sunk by the pneumatic caisson process, which consists of sinking metal tubes of the size required for the finished piers. Some of these are 19 feet in diameter. In sinking these metal tubes water was encountered and the pneumatic process had to be resorted to, consisting of closing up the upper ends of the tubes by a system of air locks. The interiors were then filled with air under pressure, equivalent to the water pressure outside, and this prevented the water from entering at the bot-



THE FLEMISH ROOM—ON THE FORTIETH FLOOR SHOWING FLEMISH RENAISSANCE TAPESTRY (WOVEN ABOUT 1650) AND ITALIAN RENAISSANCE MANTELPiece CARVED IN STONE

tom. The workmen thereby obtained access to the exterior so as to excavate and remove the soil. Upon reaching the solid rock the tube was gradually filled with concrete, the top removed and the filling completed, thus leaving solid concrete piers for the steel columns of the Building to rest upon.

The caissons under this Building average 110 feet in depth below the sidewalk, and there are 69 of these with a combined length of approximately 5,000 feet, all carried down to bed rock. The total load on the rock at the caisson base was estimated to be 24 tons per square foot. There

is no possibility of the Building rocking in the slightest degree, because the dead load on any of the columns is greater than the maximum uplift due to wind pressure on the Building. The Building's weight above the caissons is estimated to be 223,000 tons, including allowance for wind pressure.

The wind pressure was carefully studied, and it may be safely stated that a hurricane, blowing at 200 miles per hour, would not damage the framework of this Building in any way. Winds of such velocity are, of course, unknown. At the very top, where scientific observations

have been made, no vibration whatever was detected. The Tower is braced to take care of wind strains by a system of portal braces like those used at the ends of bridges. These occur in all stories, so that wind blowing at any floor level is transmitted through the braces below successively until it reaches the foundation. This form of bracing is unusual in building construction, but it was considered by far the best solution of the difficult engineering problem in hand.

The copper roofs on the Tower and on the main building are connected by means of copper cables with the Building's structural steelwork. This grounds the structure and produces a result similar to the ordinary lightning conductor. The Building is, therefore, safe even during severe lightning storms.

No description of the Woolworth Building is complete without a word concerning that vitally important feature called SERVICE, a feature, perhaps, more important than all others to the tenants. Every possible

need of the tenants is anticipated and cared for promptly, courteously and efficiently. The smooth-running organization, planned as it has been along departmental lines, as in a great railway system, has for example, its Fire, Police, Cleaning, Repair and Maintenance Departments,

on duty night and day, always, each working with rigid alertness and fidelity. The Building contains nearly 30 acres of floor space, yet this vast area is cleaned—yes, and thoroughly—every single day, but not during business hours

when such work would disturb the tenants. The 5,000 or more windows throughout the Building are cleaned once a week and more often when storms make it necessary. The work of the Night Watchmen, who make hourly patrols of the Building, and of the Police and Detective Forces, is especially important to tenants, because they are sure of the absolute security of their property during closed hours and because it prevents interruption and annoyance during business hours, of a kind commonly experienced in some office buildings.



Substantially all the repair work—and this is a vast item—is executed by the Building's mechanical forces, which include, among others, the Electrical, Plumbing, Heating and Elevator Maintenance Departments, all operating coordinately and under well-trained heads. Even the tools required to perform special classes of work are made by the house mechanics, and the Building may be said to be self-contained. Absolute cooperation exists among all departments, and, to a man, the 300 odd employees know how to serve. They go about their work determined to satisfy and please every tenant from the largest to the smallest uni-



formly, knowing, as they do, that upon that altogether the success of the great institution depends

The Woolworth Building has been called "The Cathedral of Commerce"—a monument to small things, yet it is even more—it is the colossal and enduring gift to civilization of a true-born, patriotic American, Frank W. Woolworth, and it stands unique in the history of great buildings throughout the world in that it is without a mortgage or dollar of indebtedness. Mr. Woolworth paid for this gigantic structure from start to finish from his own resources, accumulated through his business sagacity in establishing an entirely new line of



EMERGENCY ROOM FOR TENANTS AND VISITORS



merchandising through retail stores handling only five and ten cent goods. This enterprise has developed into the largest retail business in existence today.

Thus it may be said that the name Frank W. Woolworth has been indelibly inscribed throughout the length and breadth of our land and abroad, and the Woolworth Building, symbolizing, as it truly does, the crowning achievement of a career of usefulness toward mankind, will long herald the march of progress down through the corridors of time.

FRANK W. WOOLWORTH

1852 - 1919

THE visitors to the Observation Gallery of the Woolworth Building, and others, who read the story of "The Cathedral of Commerce," may be interested in a brief résumé of the life of the man by whom this Gothic monument was built.

Frank W. Woolworth was descended from Richard Woolworth, who came from England about 1650 and settled in Massachusetts. He was born April 13, 1852, at Rodman, Jefferson County, N.Y., his parents being John H. and Fannie (McBrier) Woolworth. When he was about seven years of age the family moved to a farm at Great Bend, N.Y. Here the boy worked on the farm and attended a district school. Later he attended a Watertown Commercial College, from which he was graduated in 1872.

Starting as a clerk in 1873 in the department store of Augsbury & Moore at Watertown, N.Y., at \$3.50 per week, he remained with that firm (which became Moore & Smith) until the early part of the year 1879, when he left to go in business for himself.

Mr. Woolworth was married in 1876 to Miss Jennie Creighton, of Watertown, N.Y., and had three daughters.

The first store (which was strictly a 5-cent store) was opened by Mr. Woolworth February 22, 1879, at Utica, N.Y. This store was not a success. The second store, established at Lancaster, Pa., was a successful venture. The third store, opened at Harrisburg, Pa., in June, 1879, was not successful, while the fourth, started at Scranton, Pa., was a success.

Despite the failure of later ventures at Philadelphia, Pa., Newark, N.J., and Elmira,

N.Y., he persisted in the establishment of a chain of 5- and 10-cent stores.

In 1886, Mr. Woolworth opened a small office in New York City, at 104 Chambers Street, and made this his headquarters.

In 1905, he owned and operated about 300 stores when he incorporated his business for \$10,000,000, under the name of F. W. Wool-

worth & Company. This company was reorganized in 1912 as the F. W. Woolworth Company, with a capital of \$65,000,000, and absorbed the business of S. H. Knox & Co., F. M. Kirby & Co., E. P. Charlton & Co., C. S. Woolworth and W. H. Moore, with a total of 600 stores.

At the date of the death of the late Frank W. Woolworth, the Company owned and operated over one thousand stores and doing a total annual business of approximately \$120,000,000.

Mr. Woolworth died April 8, 1919, at his country home at Glen Cove, L.I. His New York City residence was at 990 Fifth Avenue.

In 1914, in memory of his father and mother, he built and endowed the Woolworth Memorial Methodist Episcopal Church at Great Bend, N.Y. His contributions to charitable causes were large.

Up to the time of his death, Mr. Woolworth was a member of the board of directors of many banks and commercial corporations. He was a member of numerous associations and clubs, including among others, the New York Chamber of Commerce, the Merchants' Association of New York, the Union League Club, the Lotos Club, the Hardware Club, and the Automobile Club of America.



LOWER
MANHATTAN
ISLAND
FROM THE
NORTH
RIVER



GLIMPSE
OF A SECTION
OF THE
GREATEST
HARBOR IN
THE WORLD

